

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE EXTENDING PATENT TERM
UNDER 35 U.S.C. 156

#13

Patent No. : 4,284,647
Dated : August 18, 1981
Inventor(s) : Saul W. Brusilow et al
Patent Owner : The John Hopkins University

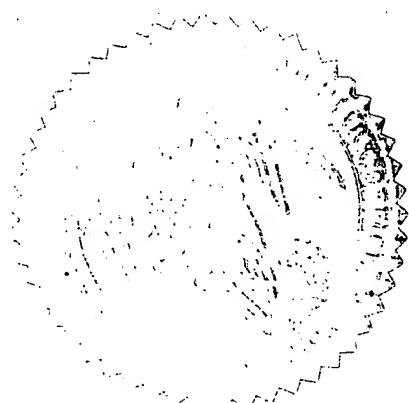
This is to certify that there has been presented to the
COMMISSIONER OF PATENTS AND TRADEMARKS

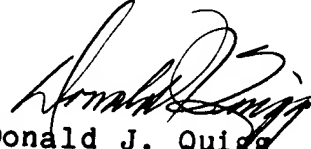
an application under 35 U.S.C. 156 for an extension of
the patent term. Since it appears that the requirements
of law have been met, this certificate extends the term
of the patent for the period of

2 YEARS

with all rights pertaining thereto as provided by 35
USC 156(b).

I have caused the seal of the Patent
and Trademark Office to be affixed
this Twenty-Eighth day of December 1988.




Donald J. Quigg

Assistant Secretary and Commissioner
of Patents and Trademarks